(IWM – 17) Graded Border Irrigation Application Efficiency Analysis – Example

Example analysis is for an alfalfa field irrigated with a Hi-Flow Turn Out (flow rate is 7.5 cubic feet/second (cfs))												
Parameters Analyzed by NRCS Irrigation Program *Irrigation Program Analysis I												
Border Width	Border Length	Area Irrigated	Slope (ft./100 ft.)	Soil Intake Family	Roughness Coefficient	Flow per Border	Net Application	Inflow Time	Deep Percolation	Runoff	Gross	Application Efficiency
ft.	ft.	acres	%	number	n value	cfs	inches	hour(s)	inches	inches	inches	%
436	600	6.0	0.1	0.6	0.15	7.5	2.0	2.0	0.36	0.11	2.48	81
Enter producer's Site-Specific field parameters Irrigation Program Analysis										alysis R	esults	
NOTE: It is highly recommended that at least one or two field Irrigation Water Management (IWM) evaluations be conducted. IWM evaluations is crucial baseline information that is needed, in order to properly assess, plan, and implement changes for obtaining increased IWM levels, crop yields, and quality. The following variables are part of the IWM evaluation: > Crop quality & yield > Irrigation Water Mgmt. skill > Irrigation scheduling & constraints > Soils (texture & structure) > Type of irrigation system/efficiency > Water Quality > Water Quality > Labor, Costs, etc. Irrigation field notes (e.g., acres irrigated, crops, yield, water supply/quality, soils, system O&M, drainage, runoff, ponding, etc.):												